

## EAST Search History

| Ref # | Hits   | Search Query   | DBs                            | Default Operator | Plurals | Time Stamp          |
|-------|--------|--|--------------------------------|------------------|---------|---------------------|
| S1    | 3      | "5357214"  | US-PGPUB;<br>USPAT             | OR               | OFF     | 2007/08/18<br>10:53 |
| S2    | 12     | "6160450"  | US-PGPUB;<br>USPAT             | OR               | OFF     | 2007/08/18<br>10:54 |
| S3    | 8      | "6504937"  | US-PGPUB;<br>USPAT             | OR               | OFF     | 2007/08/18<br>10:54 |
| S4    | 4      | "4293823"  | US-PGPUB;<br>USPAT             | OR               | OFF     | 2007/08/18<br>10:54 |
| S5    | 1      | wo-2005076466-\$.dld.  | US-PGPUB;<br>USPAT;<br>DERWENT | OR               | OFF     | 2007/08/18<br>10:55 |
| S6    | 2      | "20070076904"  | US-PGPUB;<br>USPAT;<br>DERWENT | OR               | OFF     | 2007/08/18<br>10:56 |
| S7    | 214    | 381/95   | US-PGPUB;<br>USPAT             | OR               | OFF     | 2007/08/18<br>12:29 |
| S8    | 9      | "6150875"  | US-PGPUB;<br>USPAT             | OR               | OFF     | 2007/08/18<br>12:30 |
| S9    | 5      | "6424480"  | US-PGPUB;<br>USPAT             | OR               | OFF     | 2007/08/18<br>12:30 |
| S10   | 14     | ("3987369"   "4361735"   "4451800"  <br>"4466120"   "4583052"   "4598253"  <br>"4629910"   "4718083"   "4954769"  <br>"5097224"   "5239579"   "5337011"  <br>"5577129"   "Re33309").PN.                            | US-PGPUB;<br>USPAT; USOCR      | OR               | OFF     | 2007/08/18<br>15:06 |
| S11   | 1988   | "common mode" near signals   | US-PGPUB;<br>USPAT; USOCR      | OR               | OFF     | 2007/08/18<br>15:13 |
| S12   | 10     | (US-20070076904-\$.dld. or (US-5357214-<br>\$ or US-6160450-\$ or US-6504937-\$ or<br>US-4293823-\$ or US-6150875-\$ or US-<br>6424480-\$ or US-5337011-\$ or US-<br>4451800-\$.dld. or (WO-2005076466-\$.<br>dld. | US-PGPUB;<br>USPAT;<br>DERWENT | OR               | OFF     | 2007/08/18<br>15:06 |
| S13   | 1      | S11 and S12  | US-PGPUB;<br>USPAT;<br>DERWENT | OR               | OFF     | 2007/08/18<br>15:06 |
| S14   | 2      | ("common mode" near signals) same<br>"audio band"  | US-PGPUB;<br>USPAT; USOCR      | OR               | OFF     | 2007/08/18<br>15:07 |
| S15   | 300    | ("common mode" near signals) same<br>"differential mode"   | US-PGPUB;<br>USPAT; USOCR      | OR               | OFF     | 2007/08/18<br>15:17 |
| S16   | 24921  | "phase shifter"  | US-PGPUB;<br>USPAT; USOCR      | OR               | OFF     | 2007/08/18<br>15:19 |
| S17   | 1      | S12 and S16  | US-PGPUB;<br>USPAT; USOCR      | OR               | OFF     | 2007/08/18<br>15:19 |
| S18   | 30     | S16 near "differential amplifier"  | US-PGPUB;<br>USPAT; USOCR      | OR               | OFF     | 2007/08/18<br>15:19 |
| S19   | 118110 | phase near shift\$3  | US-PGPUB;<br>USPAT             | OR               | OFF     | 2007/08/18<br>15:40 |
| S20   | 1      | S12 and S19  | US-PGPUB;<br>USPAT             | OR               | OFF     | 2007/08/18<br>15:56 |

|     |        |   |                                |    |     |                     |
|-----|--------|---|--------------------------------|----|-----|---------------------|
| S21 | 1802   | "voltage pump"  | US-PGPUB;<br>USPAT             | OR | OFF | 2007/08/18<br>15:56 |
| S22 | 0      | S21 and 381/95  | US-PGPUB;<br>USPAT             | OR | OFF | 2007/08/18<br>15:56 |
| S23 | 4      | S21 and 381/113   | US-PGPUB;<br>USPAT             | OR | OFF | 2007/08/18<br>16:12 |
| S24 | 1      | mems and S12  | US-PGPUB;<br>USPAT             | OR | OFF | 2007/08/18<br>16:17 |
| S25 | 68     | mems near microphone  | US-PGPUB;<br>USPAT             | OR | OFF | 2007/08/18<br>16:48 |
| S26 | 625328 | (transition frequency near range)   | US-PGPUB;<br>USPAT             | OR | OFF | 2007/08/18<br>16:56 |
| S27 | 61     | S26 and 381/95  | US-PGPUB;<br>USPAT             | OR | OFF | 2007/08/18<br>16:56 |
| S28 | 31     | ("transition frequency" near range)   | US-PGPUB;<br>USPAT             | OR | OFF | 2007/08/18<br>17:04 |
| S29 | 246    | ("transition frequency" same range)   | US-PGPUB;<br>USPAT             | OR | OFF | 2007/08/18<br>17:04 |
| S30 | 246    | ("transition frequency" same range)S29<br>and 381/95  | US-PGPUB;<br>USPAT             | OR | OFF | 2007/08/18<br>17:04 |
| S31 | 0      | S29 and 381/95  | US-PGPUB;<br>USPAT             | OR | OFF | 2007/08/18<br>17:05 |
| S32 | 2      | S29 and 381/113   | US-PGPUB;<br>USPAT             | OR | OFF | 2007/08/18<br>17:17 |
| S33 | 34584  | bipolar near transistor   | US-PGPUB;<br>USPAT             | OR | OFF | 2007/08/18<br>17:17 |
| S34 | 2      | S33 and 381/95  | US-PGPUB;<br>USPAT             | OR | OFF | 2007/08/18<br>17:17 |
| S35 | 5      | deruginsky-michael\$.in.  | US-PGPUB;<br>USPAT             | OR | OFF | 2007/08/19<br>19:04 |
| S36 | 11     | furst-claus\$.in.   | US-PGPUB;<br>USPAT             | OR | OFF | 2007/08/19<br>19:04 |
| S37 | 228    | 381/95  | US-PGPUB;<br>USPAT             | OR | OFF | 2008/05/20<br>16:17 |
| S38 | 107    | S37 and feedback  | US-PGPUB;<br>USPAT             | OR | OFF | 2008/05/20<br>16:49 |
| S39 | 3      | "5357214"   | US-PGPUB;<br>USPAT             | OR | OFF | 2008/05/20<br>18:23 |
| S40 | 13     | (US-20070076904-\$.did. or (US-5337011-<br>\$ or US-4451800-\$ or US-6504937-\$ or<br>US-6150875-\$ or US-5357214-\$ or US-<br>4293823-\$ or US-6424480-\$ or US-<br>6160450-\$ or US-6731163-\$ or US-<br>5386474-\$ or US-7356151-\$.did. or (WO-<br>2005076466-\$.did. | US-PGPUB;<br>USPAT;<br>DERWENT | OR | OFF | 2009/06/15<br>18:13 |
| S41 | 4      | S40 and offset  | US-PGPUB;<br>USPAT             | OR | OFF | 2009/06/15<br>18:13 |
| S42 | 130    | (381/95,113,114,115,122,56).cds. and<br>offset  | US-PGPUB;<br>USPAT             | OR | OFF | 2009/06/15<br>18:17 |
| S43 | 63     | (381/95,113,114,115,122,56).cds. and<br>offset and feedback   | US-PGPUB;<br>USPAT             | OR | OFF | 2009/06/15<br>18:17 |

|     |    |  |                           |    |     |                     |
|-----|----|--|---------------------------|----|-----|---------------------|
| S44 | 11 | ("5162799"   "5347279"   "5471209"  <br>"5577129"   "5614904"   "5832076"  <br>"6285769"   "6427015"   "6456219"  <br>"6539096"   "6853733").PN.   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/06/15<br>18:38 |
| S45 | 15 | ("20020008262"   "20020071578"  <br>"20030133588"   "20030235315"  <br>"4541112"   "5352936"   "5361237"  <br>"5377273"   "5490220"   "5675279"  <br>"6580797"   "6693480"   "6928173"  <br>"7046815"   "7076070").PN. | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/06/15<br>18:42 |

6/19/2009 6:40:15 PM

C:\Documents and Settings\gmonikang\My Documents\EAST\Workspaces\microphone preamplifier.wsp